

CLAIM AMENDMENTS

1. (Original) A method for a display source to regulate a rate of production by the display source of information for display on a display device, the display source associated with a display memory surface set, the display device associated with a presentation surface set distinct from the display memory surface set, the method comprising:
 - receiving notification of an estimated time when a future frame will be displayed on the display device;
 - preparing display information in the display memory surface set associated with the display source, the preparing based, at least in part, on the estimated time; and
 - releasing the display information for display on the display device.
2. (Original) The method of claim 1 wherein the display source is in the set: application program, driver, and operating system.
3. (Original) The method of claim 1 wherein preparing display information comprises preparing display information in a back buffer in a flipping chain of the display memory surface set associated with the display source and wherein releasing comprises making the back buffer into a ready buffer in the flipping chain of the display memory surface set.
4. (Original) The method of claim 1 wherein the preparing comprises performing an operation in the set: deinterlacing video and interpolating video.
5. (Original) The method of claim 1 wherein releasing comprises releasing per-pixel alpha information with the display information.
6. (Original) The method of claim 1 further comprising:
 - disabling processing of the display source.

7. (Original) The method of claim 1 further comprising:
receiving notification of a time when a frame was displayed on the display device,
the frame containing at least a portion of the released display information;
comparing the received estimated time to the received display time; and
if the received display time is later than the received estimated time, then taking
corrective action.
8. (Original) The method of claim 7 wherein taking corrective action comprises degrading
quality when preparing future display information.
9. (Original) A computer-readable medium containing instructions for performing a
method for a display source to regulate a rate of production by the display source of
information for display on a display device, the display source associated with a display
memory surface set, the display device associated with a presentation surface set distinct
from the display memory surface set, the method comprising:
receiving notification of an estimated time when a future frame will be displayed
on the display device;
preparing display information in the display memory surface set associated with
the display source, the preparing based, at least in part, on the estimated time; and
releasing the display information for display on the display device.
10. (Currently Amended) A method for a display source to provide information for display
on a display device, the display device associated with a display memory surface set, the
display device associated with a presentation surface set distinct from the display
memory surface set, the method comprising:
receiving ~~notification~~ occlusion information indicating that at least a portion of
the display information will be occluded on the display device, wherein the occlusion
information is based at least in part upon display information from a different display
source; and
if at least a portion of the display information will not be occluded, then preparing
only non-occluded portions of the display information, and not preparing occluded
portions of the display information, in the display memory surface set associated with the
display source, and releasing the display information.

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11. (Original) The method of claim 10 wherein the display source is in the set: application program, driver, and operating system.
 12. (Original) The method of claim 10 wherein preparing display information comprises preparing display information in a back buffer in a flipping chain of the display memory surface set associated with the display source and wherein releasing comprises making the back buffer into a ready buffer in the flipping chain of the display memory surface set.
 13. (Original) The method of claim 10 wherein releasing comprises releasing per-pixel alpha information with the display information.
 14. (Currently Amended) A computer-readable medium containing instructions for performing a method for a display source to provide information for display on a display device, the display device associated with a display memory surface set, the display device associated with a presentation surface set distinct from the display memory surface set, the method comprising:
 - receiving ~~notification~~ occlusion information indicating that at least a portion of the display information will be occluded on the display device, wherein the occlusion information is based at least in part upon display information from a different display source; and
 - if at least a portion of the display information will not be occluded, then preparing only non-occluded portions of the display information, and not preparing occluded portions of the display information, in the display memory surface set associated with the display source, and releasing the display information.

15. (Previously Presented) The method of claim 1 wherein the estimated time is based on display timing information acquired from the presentation surface set.
 16. (Previously Presented) The method of claim 9 wherein the estimated time is based on display timing information acquired from the presentation surface set.
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concl.* 17. (New) The method of claim 10, wherein the different display source is a downstream display source.
 18. (New) The method of claim 14, wherein the different display source is a downstream display source.
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